AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Currently Amended) A computer-implemented method for managing processors as system devices, the method comprising:

executing an operating system by one or more first processors included in a group of heterogeneous processors;

loading a device module corresponding to one or more secondary processors included in the group of heterogeneous processors into the operating system, wherein the first processors are of a first processor type and the second processors are of a second processor type;

loading an application using the operating system, the application including device-oriented instructions adapted to control the one or more of the secondary processors; [[and]]

setting up a device-like access path for a selected secondary processor, the device-like access path being used by the application to access the selected secondary processor;

executing the application on one of the first processors;

detecting a device call from the application, wherein the device call is a request from the application to load device-oriented instructions to the selected secondary processor;

in response to the detecting, loading the device-oriented instructions to a system memory accessible by the selected secondary processor;

performing the device-oriented instructions at the one or more of the selected secondary processors. processor;

in response to the performing, storing processed data in an output buffer in the system memory;

notifying the operating system that the device-oriented instructions have been performed; and

reading, by the application, the processed data from the output buffer;

2.   (Canceled)

3.   (Currently Amended) The method of Claim [[2]] 1, further comprising creating a configuration file, the configuration file containing a list of one or more of the secondary processors and [[the]] a corresponding device-like access set up for each of the one or more secondary processors.

4.   (Original) The method of Claim 3, further comprising determining for which of the one or more of the secondary processor the application's device-oriented instructions are intended.

5.   (Original) The method of Claim 4, wherein the determining is performed using information from the configuration file.

6.   (Original) The method of Claim 1, wherein the loading the device module facilitates a communication between the application and one or more of the secondary processors by extending the operating system.

7.   (Canceled)

8.   (Currently Amended) The method of Claim 1, wherein the performing the device-oriented instructions comprises the one or more selected secondary processors processor processing application-provided data according to the application's device-oriented instructions.

9.   (Canceled)

10.   (Canceled)

11.   (Canceled)

12.   (Canceled)

13.   (Canceled)

14.   (Canceled)

15.   (Canceled)

16.   (Canceled)

17.   (Canceled)

18.   (Canceled)

19.   (Canceled)

20.   (Canceled)

21.   (Canceled)

22.   (Canceled)

23.   (Canceled)

24.   (Canceled)